nextar™

ITEM# S3

AUTOMOTIVE NAVIGATION SYSTEM (GPS)

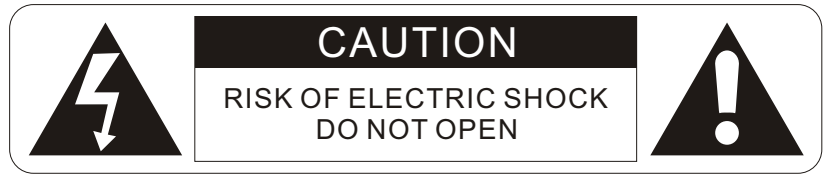
NAVTEQ ON BOARD

Voice Prompt

Touch Screen

HARDWARE MANUAL

Important Safety Instruction



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER(OR BACK).NO USE-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the users to the presence of uninsulated" dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS APPLIANCE TO RAIN OF MOISTURE

POWER SUPPLY

Connect the supplied adapter to the side of the unit in the slot marked "DC 5V IN" . If you have difficulty inserting the plug, turn in over and reinsert it. If the unit will not be used for a long time disconnect the plug from outlet.

CAUTION

These servicing instruction are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
Refer to service manual for servicing instructions. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Important Safety Instruction

NOTES
1) Read these instructions

2) Keep these instructions

3) Heed all warnings

4) Follow all instructions

5)Do not use this apparatus near water

6) Clean only with a damp cloth

7) Do not block any of the ventilation opening. Install in accordance with the manufacture's instructions.

8) Do not install near any heat sources such as radiators. Stoves, or other apparatus (including amplifies)that produce heat.

9) Do not defeat the safety purpose of the polarized or grounding-type plug, A polarized plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11) Only use attachments/accessories specified by the manufacturer.

12)Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lighting storms or when unused for long periods of time.

14)Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way. Such as power-supply cord or plug is damaged, liquid has been spilled or object have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15)Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases ,shall be placed on apparatus.

Important Safety Instruction

Warning
Failure to avoid the following potentially hazardous situations may result in injury or property damage.
The unit is designed to provide you with route suggestions. It does not reflect road closures or road conditions, traffic congestion, weather conditions, or other factors that may effect safety or timing while driving.
Use the unit only as a navigational aid. Do not attempt to use the unit for any purpose requiring precise measurement of direction, distance, location, or topography. This product should not be used to determine ground proximity for aircraft navigation.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received including interference that may cause undesired operation.

The images in this manual are only for reference and they may be different from the actual ones.

Accessories

Accessories list

	Owner’s Manual	2
	Car Adaptor	1
	Mounting Bracket	1
	USB Cable	1
	Touch Pen	1
	Dashboard mount disk	1
	Pouch	1

Note

Accessories and their parts numbers are subject to modification without prior notice due to improvements.

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Chapter I Preparing the S3 for Use

This chapter guides you to get the S3 started, and also describes the basic operations of the navigation device.

1.1 Introduction to appearance and buttons

1.1.1 Front appearance and buttons:

【Description】

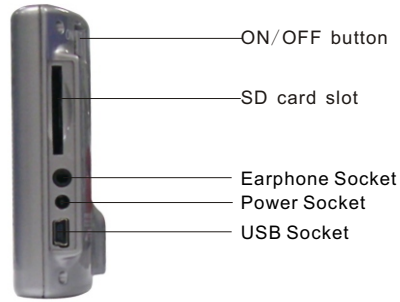
1. Charge indicator: Blue light indicates the charging state, and it goes out when the charging is completed; A Red Light indicates that the current system is operating.
2. LCD touch screen: 320× 240 pixels true color, providing you a perfect visual experience and a supporting touch function;
3. MENU button: If the current state is 'power on', hold and press the MENU power button. The system will automatically shut down and change into energy saving mode. If the current state is 'power off' and the battery power has not yet been exhausted, hold and press the power this button and the system will startup

1.1.2 Back appearance and buttons:

1.1.3 Left-side appearance and buttons

【Description】

Power Socket: DC port is connected with the charge power supply; used when charging the navigation device



1.2 Charging the device for initial use

1.2.1 For initial use, please charge the battery fully; the steps are as follows:

1 Plug DC end of charge adapter into the power socket on the left-side of the device; Plug the other end into the main's supply;

The S3 navigation device has two power supply modes: battery power supply and main power supply.

When the GPS navigation device is not connected to the charging adapter,it obtains power from a lithium polymer battery. The battery consumption sign [ ] is visible on the up left corner of the main system interface. The battery capacity bar [ ] of the power-setup interface shows the current residual battery capacity.

When the GPS navigation device is connected to the external charging adapter, it obtains power from the external power supply.。

【Attention】The Power Adaptor is not included in the accessories we offer.

This navigation device has a built-in, irreplaceable lithium polymer battery. Under normal conditions (such as low backlight brightness), a fully charged battery can continuously work for about 10 hours. The actual battery supply time varies depending on how you use the GPS navigation device. Certain functions (audio, video, high brightness backlight) consume a large amount of energy and may significantly reduce supply time.

【Note】The device has a built-in, irreplaceable lithium battery. To avoid the risk of fire or burning, please do not open, perforate, hit the battery or discard it in fire or water. The battery will burst, blast or release dangerous chemicals.
When the charge indicator switches on (blue light), it indicates that the navigation device is in a charging state. Charging requires a few hours, please be patient and do not cut off power until the blue light is off. When the charge is completed, remove the adaptor plug from the mains supply.
For later use, when the battery power decreases or is exhausted, please charge it promptly.

1.2.2 Charging by car adapter:

1. Plug one end of the car adapter into the socket on the left side of the device body;
2. Plug the other end of the car adapter into the ignition to supply power for S3 while charging.

【Note】Please plug the adapter only after the vehicle starts, to avoid damage caused by instant power impact on equipment.

1.3 Power ON/OFF

ON/OFF is controlled by the power button.

1.3.1 ON:

Please check the following:

1. The battery power is adequate, or plugged into the adapter,
2. SD card is inserted into the SD/MMC slot correctly, and the inserted SD card has the system operating program.

Press the power button at the back of the machine to turn the device on.
【Note】 During the first orientation please choose an open space with no upper shelter; Please stay at the same place, for the orientation needs a few minutes to complete, so wait patiently.

1.3.2 OFF:

Press the power button at the back of the machine to turn the device off.

1.4 Using the touch pen

The touch pen (stylus) is your tool to communicate with S3.

1. Click:

Click on a menu on the screen with the tip of touch pen, to open the menu and use the menu functions.

2. Drag:

First click one point on the map with the pen tip, then move the pen tip, to move within the map and locate the map position you wish.

【Note】A touch pen with a damaged tip, a ball pen or any other edged and rough object may cause scratches and damage of the LCD screen. Please use an undamaged touch pen. Don't use a broken touch pen

1.5 Communicating with the computer

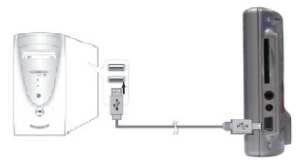
Connect to the computer via the MINI USB interface at the right side of the GPS navigation device body. See the below figure for details:

System requirements:

-Windows 98SE, ME, 20000 and XP(Driver required for Windows 98SE)

-Windows 98SE, ME, 20000 and XP(Driver required for Windows 98SE)

-DVD Rom Drive(for map upgrade purposes)
-Intel PentiumII 233Mhz
-64MB RAM
-50MB available hard drive space
-256-color display adapter and monitor (16 bit color required)



It allows files to be copied between the navigation device and the computer. You can also back-up files from the GPS navigation device io the computer to restore data to the GPS navigation device when necessary.

1. Please confirm that the GPS navigation device is in working condition and MICROSOFT ACTIVESYENC software has been installed.
2. Connect the MINI USB of USB cable [ ] to the MINI USB port on the left side of the GPS body, and the connect standard USB port [ ] to the USB Host of computer;
3. After connecting to a computer, the device automatically recognizes new hardware; the GPS navigation device suspends current running

programs and switches into the computer communication interface;

4. After communication is completed, remove the MINI USB cable. The GPS navigation device continues to run the suspended programs.

【Note】Data Security: Please backup system data into external storage devices before upgrading system data. Our company shall not be held responsible for system data damage or loss.

【Note】During the connection between the GPS navigation device and computer, the GPS navigation device will suspend other operations.

【Note】During the connection between the GPS navigation device and computer, executing any of the following actions causes the system to terminate communication with the computer and result loss of un-transmitted data:

1. Removing the MINI USB cable;
2. Pressing power button to turn off;
3. Using the reset button or battery switch to restart system;
4. Clicking the close button on the upper right corner of the window.

Chapter II Basic Operations

This chapter provides a brief introduction to the main interface of the device and also issues basic guidelines to maintain and preserve the device.

2.1 Main interface and its functions

2.1.1 Main interface of system:

Function description:

In the main menu, there are three items for selecting. Touch the corresponding item to enter.

Tap ( )to enter navigation mode, tap( ) to enter the MP3 player,

tap ( ) to enter the settings menu.

2.2 Maintaining the S3 navigation device

With proper care, the GPS navigation device can be a reliable navigation and recreation mate. Please comply with the instructions given below to maintain the device and ensure long-life and error-free use of the GPS navigation device.

□ Protect screen: Pressing the touch screen hard will damage screen. Please use the touch pen to click and operate the GPS navigation device. Use a soft cloth sprayed with a little industrial glass cleanser to clean the screen. Avoid directly spraying cleanser onto the screen.

【Note】 You must close the GPS navigation device before cleaning the touch screen.

□ Don't drop the device: Dropping the device from heights, a sudden impact and similar actions may cause damage to precision components like the screen.

Chapter Ⅱ Basic Operations

【Note】 Accidental damage is excluded from the scope of the maintenance contract.

□ Avoid using the device in the following environments: Rapid temperature change, high temperatures（over 60°）, low temperatures （below 0°）, high pressure, dusty locations, static-prone locations, damp places. Avoid corrosive liquids that corrode the navigation device. Avoid and prevent immersion in any liquid.

□ Avoid radiation interference: Radiation interference from other electronic devices may affect the proper display of the GPS navigation device screen. The elimination of the interference source will restore the normal display of the screen.

【Note】 In case of air freight, we recommend that the device body be kept within baggage and pass X-ray detection system to avoid the magnetic detector or the magnetic stick (handheld device of security guards) when passing the airport security examination channel. These devices may damage the system data. Our company shall be not responsible for any data loss incurred.

Avoid direct intense light: Don't expose the GPS navigation device to direct intense light or UV rays to maximize its service life.

Chapter Ⅲ Using the Audio Player

This chapter explains how to play your favorite music using S3 audio player, and transform it into your portable MP3.

3.1 Functions and features

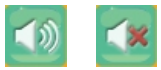
The audio player supports WMA9, MP3 and WAV format audio files; you can randomly set any play sequence.

Before using the audio player function, please copy your audio file to any folder in the storage card.

3.2 Interface and operation

3.2.1. Click the icon in the main interface of the system to open up audio player; The screen depicted below is displayed:

The table below explains the functions of each icon in the above screen.

	PLAY	Indicates that the song has been suspended/stopped .Click to continue playing.
	STOP	Click to stop song playing
	PREVIOUS	Play previous song
	NEXT	Play next song
	VOLUME	Use touch pen to drag button left /right to adjust volume, left to decrease volume, and right to increase volume
	PROGRESS	Use touch pen to drag the button left /right to adjust the process. Move the pen left to return to a certain point and continue playing, and right to forward to a certain point and continue playing
	TIME	Displays the played time of a song
	MUTE/ UNMUTE	MUTE/UNMUTE
	RETURN	Returns to the previous interface with music still running
	PLAYING CIRCULARLY	Select to circle random play
	ENTER INTO AUDIO FILES	View your Audio files
	PLAYING RANDOMLY	Selects Ordinal play

3.2.2 Interface of audio folder:
The screen below shows the Audio folder interface

The table below explains the icons in the above screen

	Delete the songs to playing files	Tap this button to delete songs from the playlist
	PREVIOUS NEXT PAGE	Displays the content of previous /next page
	PREVIOUS NEXT SONG	Change the playing turn
	PLAY	Play the song you select immediately
	BACK	Returns to the previous interface with music still running

Chapter IV Setting

This chapter explains the steps to be carried out to setup the device for operation.

Click the “Settings” icon to enter the “Settings” menu and set up the system. The setup function includes: “Calibrate Setup”, “Power Setup”, “Backlight Setup”, “Date And Time Setup”, “Language Setup” And “Volume Setup”.

The table below depict the icons and their functions

Language	Displays system language options and system outlook options.
Backlight	Adjusts the backlight of the touch screen; Enables the user to adjust the interval time for LED-off when power is supplied by battery and the interval time for LED-off when power is supplied by mains
Date and time	Sets the date for the system; Sets the time for the system; Enables the user to choose the time-zone for the system.
Power	Examines the current battery level.
Volume	Adjusts the volume of the speaker; The volume of start/close indicating tone can thus be adjusted
Calibrate information	Calibrate the sensitivity of the touch screen

Chapter IV Setting

4.1 Volume setup

Tap in the setting menu to enter Volume settings menu for volume adjusting, as shown below.

Tap buttons to adjust the volume. Then tap √ to confirm or tap × to cancel.

4.2 Power setup

Tap in the setting menu to enter Power menu for the current battery status, as shown below.

The power menu will display the current battery status. Tap √ to return.

4.3 Backlight setup

Tap

in the setting menu to enter Brightness for backlight adjusting, as shown below.

Tap ▬▬ to adjust the backlight level.
After setting up, tap √ to confirm or tap × to cancel.

4.4 Time and date setup

Tap

in the setting menu to enter Time and Date setting menu for changing to the current time zone, as below shown:

Tap to select the proper Time Zone. Tap to select the corresponding date/time to adjust, then tap to change the correspondings.
Then tap √ to confirm or tap × to cancel.

4.5 Language selection

Tap

in the setting menu to enter languages setting menu for language selecting, as below shown

Tap to select the languages.Then tap √ to confirm or tap × to cancel

4.6 Calibrate

Tap

in the settings menu to calibrate, the screen will display.
This item is used to calibrate the sensitivity of the touch screen. Tap the center of "+" as it moves around the screen. If you touch the center of "+"every time, it will disappear after having moved through a cycle(center→top left→bottom left→bottom right→top right). Tap the screen to return to the settings menu.
Note: If "+" doesn't disappear, you should calibrate again.

Chapter V

Use of Mount Accessories

When using the unit in vehicle, you can use the supplied mount accessories to mount the unit in the vehicle.

If you want to mount the unit to the dashboard, you can use the adhesive disk:

1) Choose a clean, dry spot on your dashboard;
2) Peel off protection liner from the back of the disk;
3) Attach the disk to your dashboard;
4) Mount the bracket to the adhesive disk.

Chapter V Trouble shooting

Take steps described in the tables below to solve simple problems before contacting customer service.

If you suspect something wrong with this unit, immediately turn the power off and disconnect the power connector from the unit. Never try to repair the unit yourself because it is dangerous to do so.

Problem	Possible cause	Possible Solution
There is no sound	The volume may be turned down	Turn up the volume
There is no picture	The brightness may by turned down	Adjust the brightness of the LCD

Other possibilities:

Static or other external interference may cause the unit function abnormally. In order to recover normal status, please unplug the power supply cord and then plug it into the outlet again to reset the unit. If the problems still exist, please cut off the power supply and consult your service center or the qualified technician.

Chapter VI

Chapter VI Specification

TFT Screen size	3. 5 inches
Frequency Response	20Hz～20KHz
Audio Signal-to-noise Rate	≥80db
Audio distortion or noise	≤-20db(1KHz)
Channel Separation	≥70db(1KHz)
Dynamic Range	≥85db(1KHz)
Power	AC 100～240V, 50/60Hz; DC5V
Power Consumption	<8W
Dimensions	110mm×85mm×25mm(L*W*D)
Weight	About 0. 2kg

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